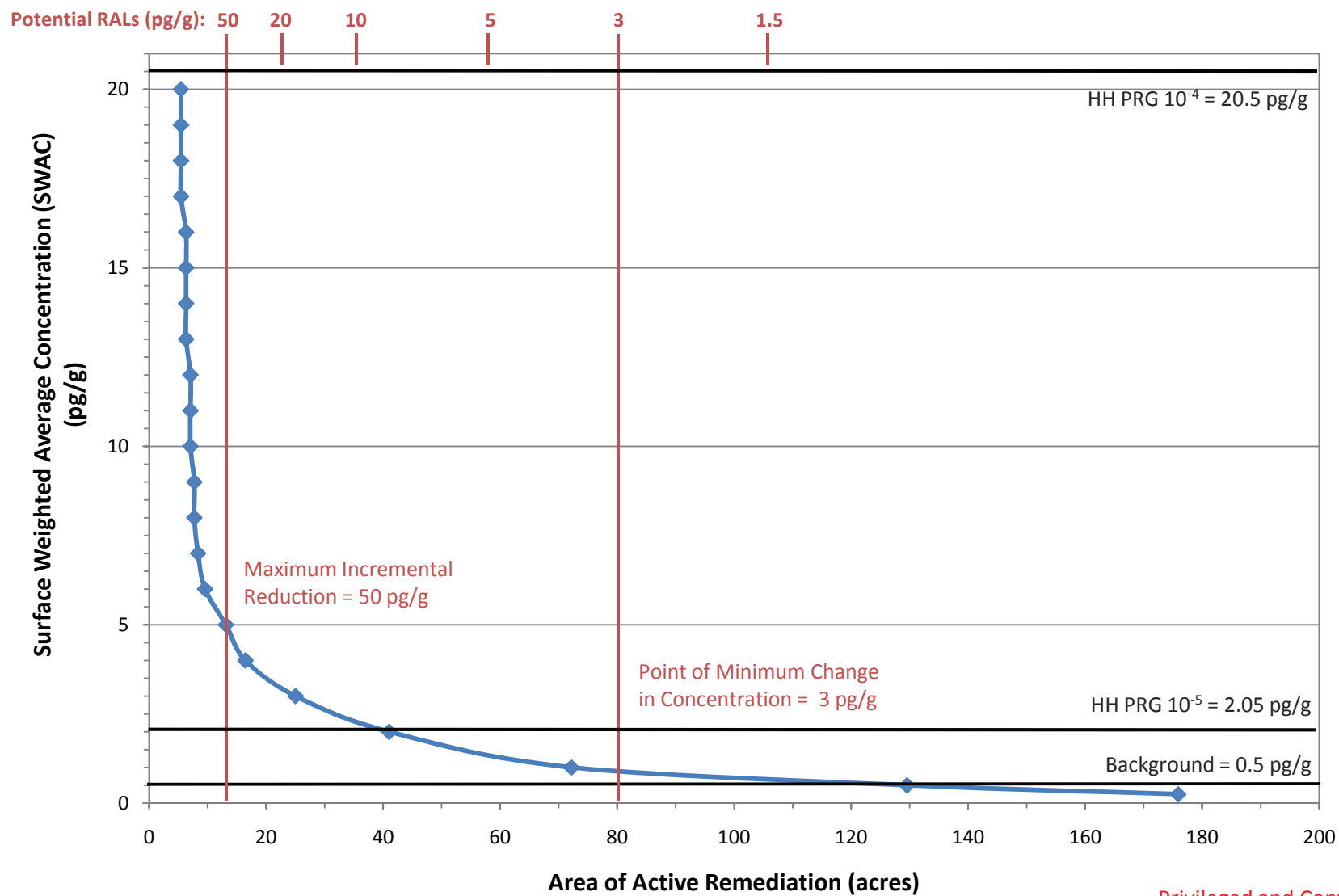


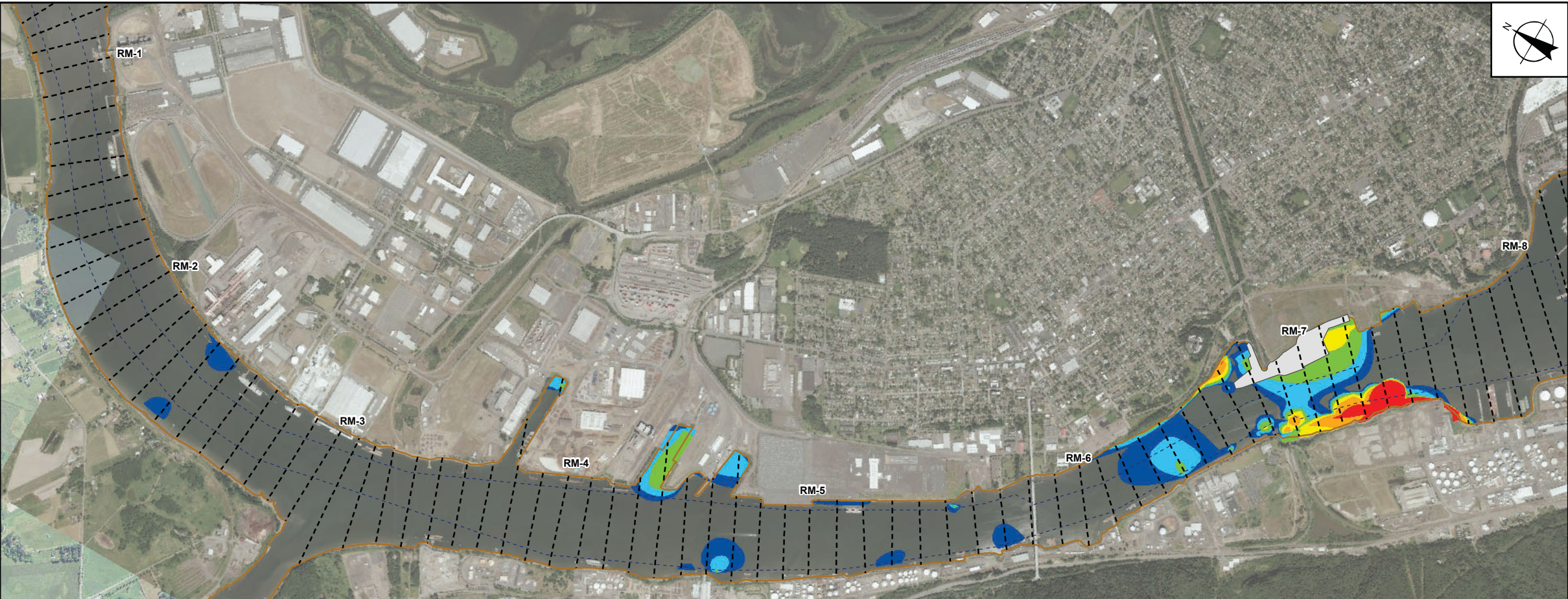
Example of Incremental Reduction and Minimal Change in 2,3,4,7,8-PeCDF Concentrations

Willamette River Mile 6.5 to 7.5

Portland Harbor



Privileged and Confidential



**Potential Areas of Active Remediation
2,3,4,7,8-PeCDF
Surface Sediment**

Portland Harbor

River Mile 1.0 to 12.0

Willamette River
Portland, Oregon

LEGEND

Potential 2,3,4,7,8-PeCDF RALs

- >1.5 - 3 pg/g
- >3 - 5 pg/g
- >5 - 10 pg/g
- >10 - 20 pg/g
- >20 - 50 pg/g
- >50 pg/g

All Other Data

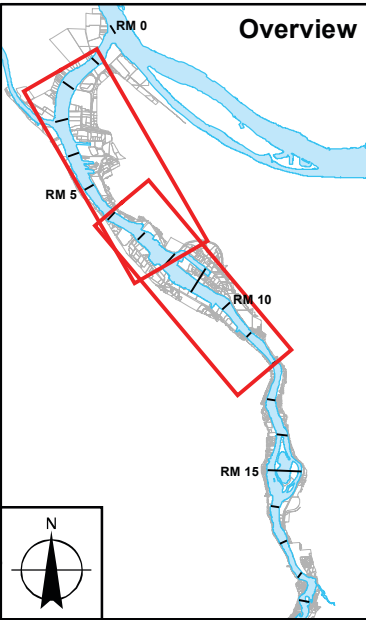
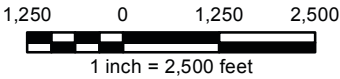
- COE Navigation Channel
- 1/10th River Mile (RM)
- Sediment Cap Boundary

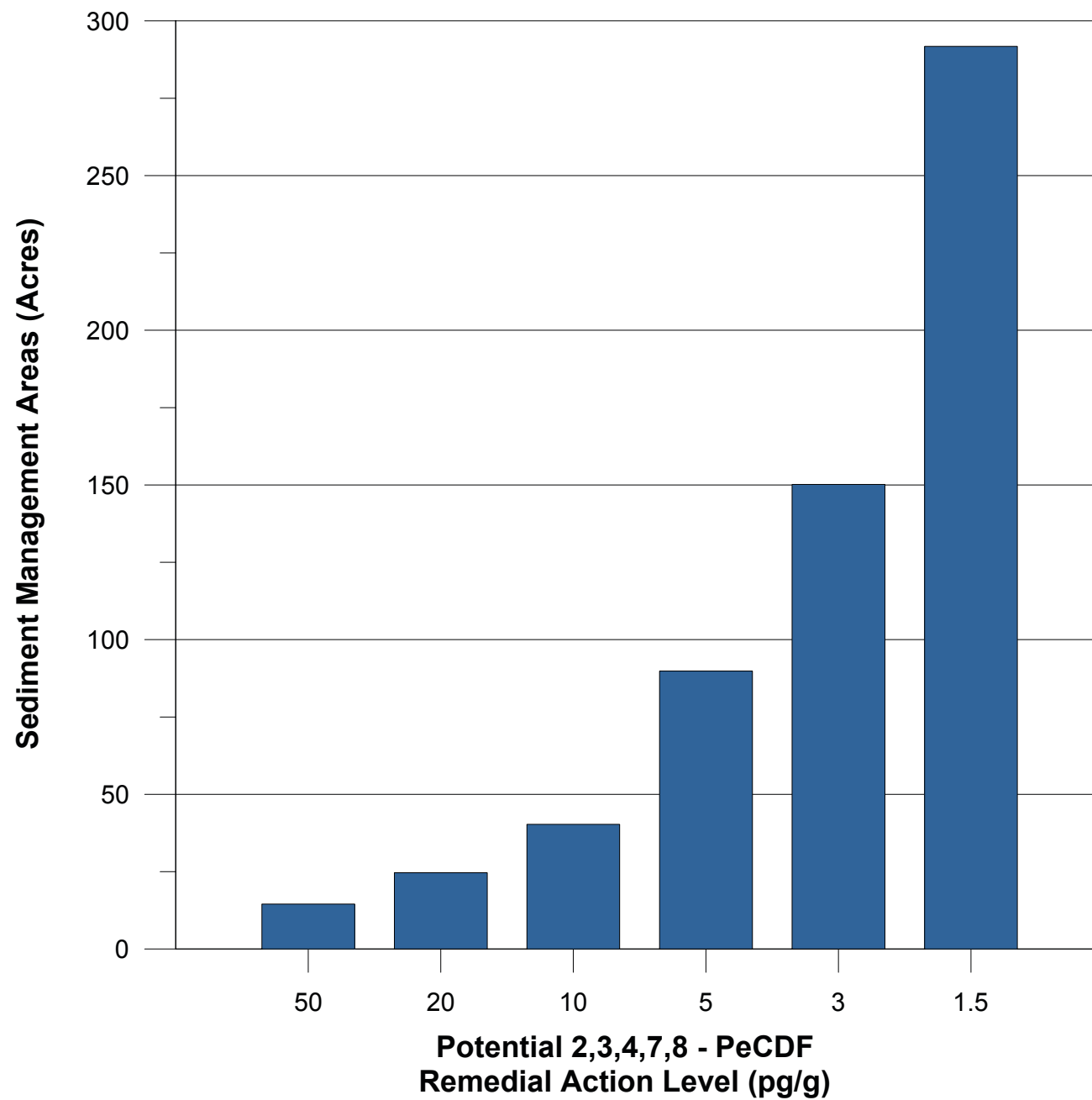
DRAFT



MAP NOTES:

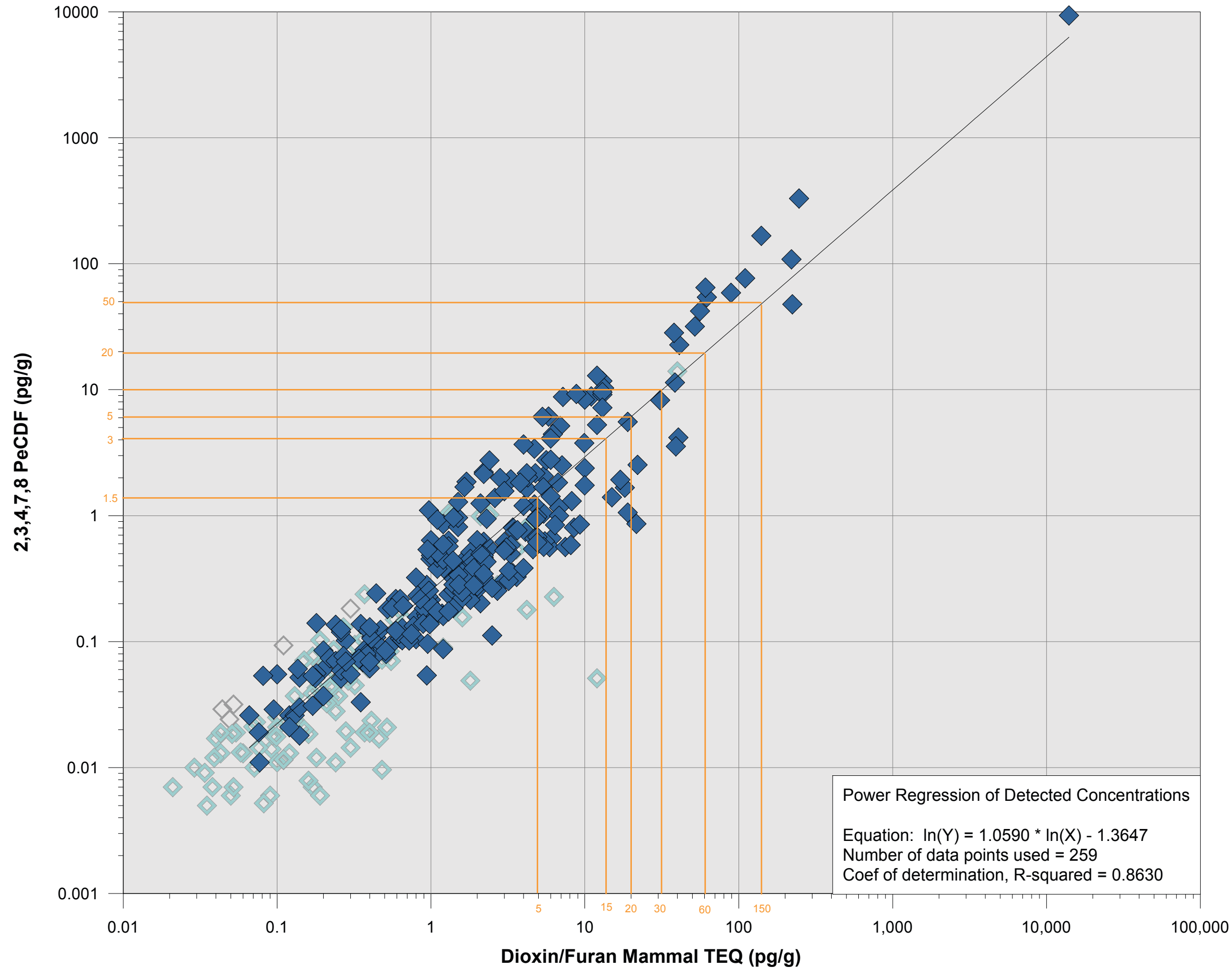
Projection: Oregon State Plane North
Datum: North American Datum of 1983
Date: July 19, 2011
1. Aerial photo taken by METRO in 2010





**Sediment Management Areas
within the Portland Harbor
for each potential
2,3,4,7,8 - PeCDF
Remedial Action Level**

Privileged and Confidential



**2,3,4,7,8 PeCDF vs.
Dioxin/Furan Mammal TEQ
in Surface Sediment**

Portland Harbor

LEGEND

- ◇ ND Dioxin/Furan Mammal TEQ
and ND 2,3,4,7,8 PCDF
- ◇ Detect Dioxin/Furan Mammal TEQ
and ND 2,3,4,7,8 PCDF
- ◆ Detect Dioxin/Furan Mammal TEQ
and Detect 2,3,4,7,8 PCDF

Note

ND = Non-Detect
Hollow diamond indicates analyte was not
detected above reporting detection limit.

Surface sediments are defined as samples with
a starting depth of 0 centimeters (cm) and an
end depth of less than or equal to 40 cm.

Scatter plots generated from the Lower
Willamette Group's database entitled:
Portland Harbor RI/FS Feasibility Study Sediment Database
(March 2011)

Date Modified: July 2011

Example of Incremental Reduction and Minimal Change in Total Dioxin/Furan TEQ (Mammalian) Concentrations

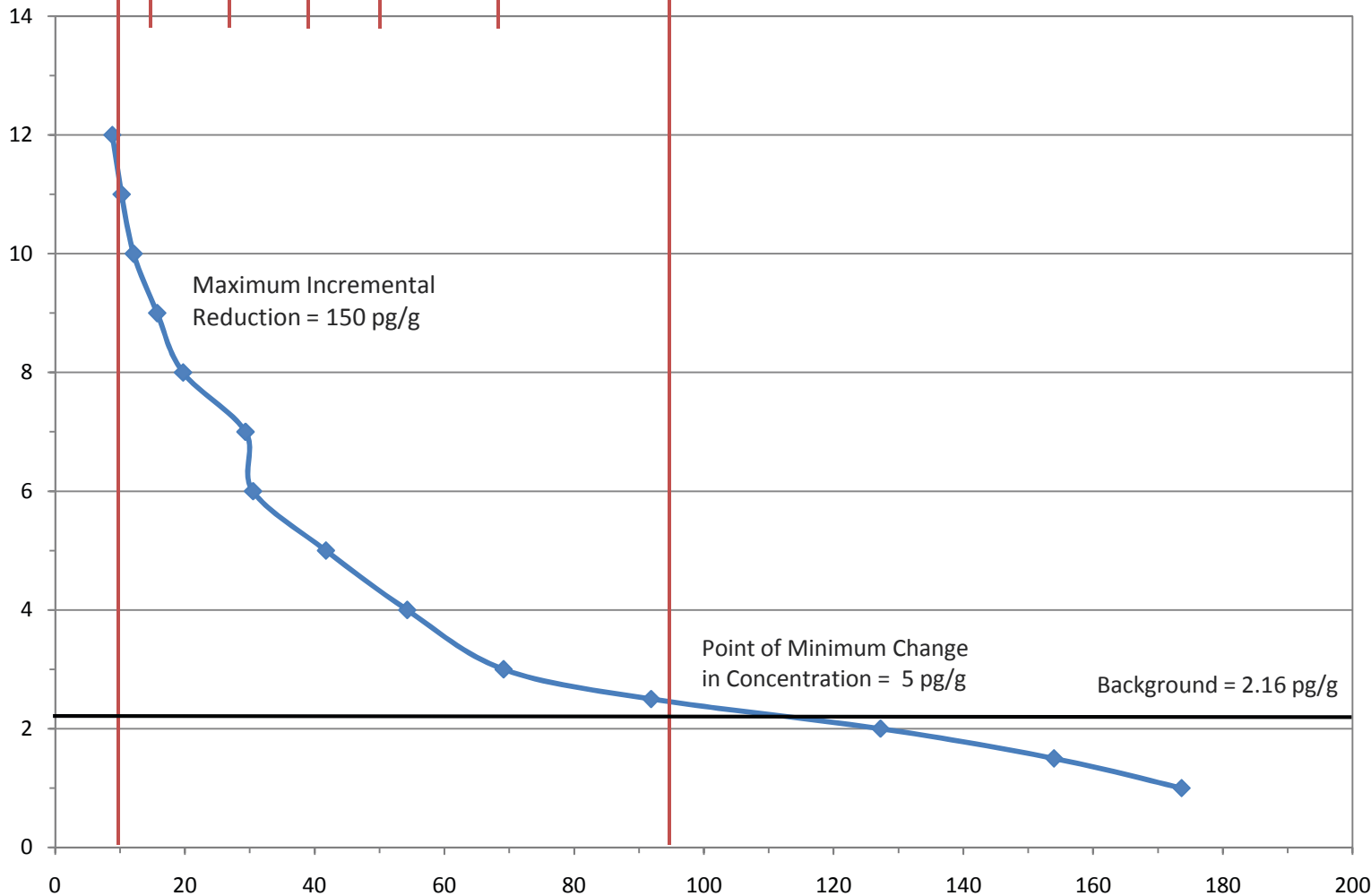
Willamette River Mile 6.5 to 7.5

Portland Harbor

Potential RALs
(pg/g):

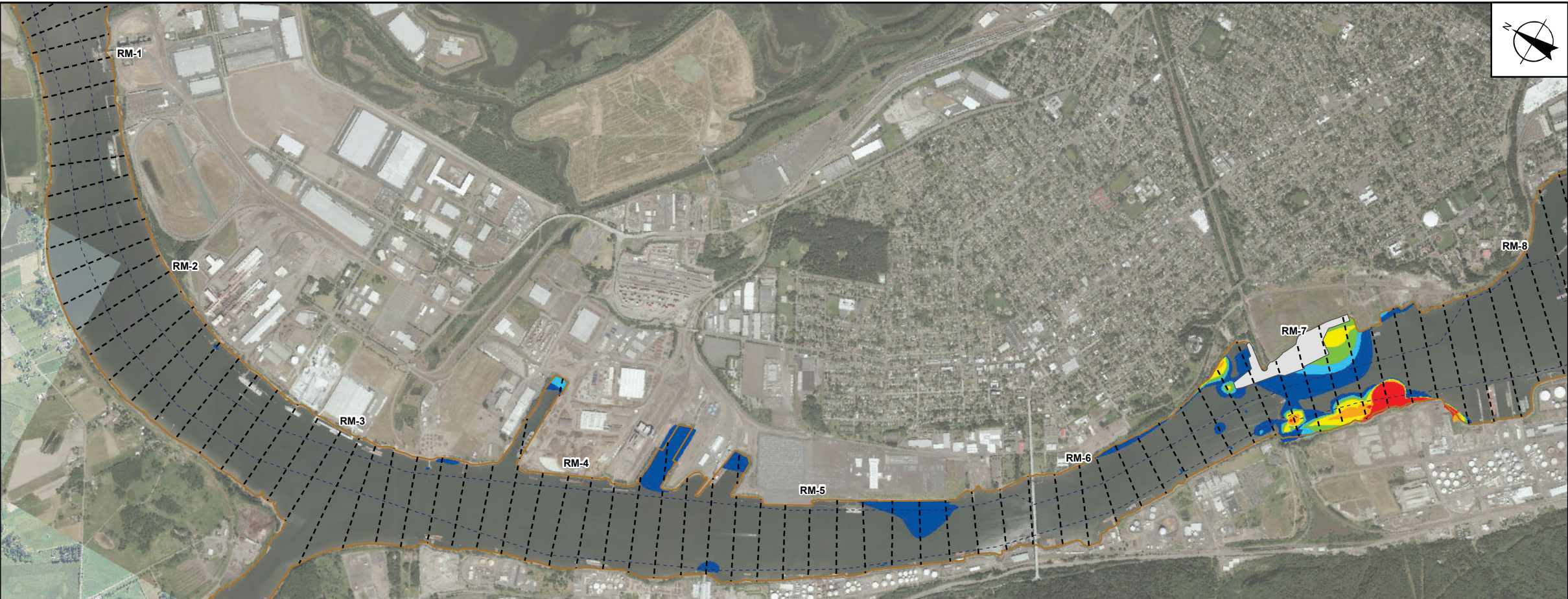
150 60 30 20 15 10 5

Surface Weighted Average Concentration (SWAC)
(pg/g)



Area of Active Remediation (acres)

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**Potential Areas of Active Remediation
Total Dioxin/Furan TEQ (mammalian)
Surface Sediment**

Portland Harbor

River Mile 1.0 to 12.0

Willamette River
Portland, Oregon

LEGEND

Potential Dioxin/Furan TEQ RALs

- >5 - 15 pg/g
- >15 - 20 pg/g
- >20 - 30 pg/g
- >30 - 60 pg/g
- >60 - 150 pg/g
- >150 pg/g

All Other Data

- COE Navigation Channel
- 1/10th River Mile (RM)
- Sediment Cap Boundary

DRAFT



MAP NOTES:

Projection: Oregon State Plane North
Datum: North American Datum of 1983
Date: July 19, 2011
1. Aerial photo taken by METRO in 2010

